Approved For Release 2008/05/20 : CIA-RDP78B04549A001000060022-7

SECRET

25X1

OUT 65542

R 112227Z JUL 68
FM NPIC
TO RUEOJFA/DIA
RUEOJFA/JCS/JRC
RUEFHQA/HQS USAF
RUCSAAA/SAC
RUWMDDA/9 SRW (DCI) BEALE AFB CALIF
BT

11 JUL 68 23 23Z

S E C R E T CITE NPIC 4191. 25X1
DIA FOR DIA/XX-2; USAF FOR AFNICAD, AFRDRP AND SAFSS; SAC FOR DIR.
SUBJECT: EVALUATION OF GIANT SCALE MISSION S-031

1. QUALITY SUMMARY: THIS MISSION PROVIDES IMAGERY COMPARABLE TO THAT OBTAINED ON PREVIOUS GIANT SCALE MISSIONS. THE PI SUITABILITY RANGES FROM GOOD IN CLOUD FREE AREAS TO POOR DEPENDING ON THE WEATHER. THE FOLLOWING GROUND RESOLUTION FIGURES ARE EMPIRICAL ESTIMATES AND INDICATE THAT AN OBJECT ONE-HALF THAT SIZE CAN BE DETECTED. THE RESOLUTION VALUES WERE MADE ON CLOUD FREE IMAGERY OF THE ORIGINAL NEGATIVE AT OR NEAR NADIR AND WHERE THE VEHICLE IS AT AN ALTITUDE OVER 70,000 FEET.

A. LEFT TECHNICAL OBJECTIVE CAMERA

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B. RIGHT TECHNICAL OBJECTIVE CAMERA
C. LEFT OPERATIONAL OBJECTIVE CAMERA
D. RIGHT OPERATIONAL OBJECTIVE CAMERA

2. CLOUDS OBSCURE OR DEGRADE 40 PERCENT OF THE ENTIRE MISSION.
3. THE MISSION EMPLOYED THE USUAL SENSORS AND WAS PROCESSED AT [redacted] THE ONLY MATERIALS EVALUATED WERE THE ORIGINAL NEGATIVES FROM THE OPERATIONAL AND TECHNICAL OBJECTIVE CAMERAS.
4. ANALYSIS OF THE TECHNICAL OBJECTIVE MATERIAL.
A. COMMENTS APPLICABLE TO BOTH CAMERAS:
(1) APPROXIMATELY 70 PERCENT OF THE PHOTOGRAPHY WAS ACQUIRED ABOVE 30 DEGREES OBLIQUITY.
(2) RANDOM MINUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS ARE PRESENT THROUGHOUT THE MISSION.
(3) A PLUS DENSITY STREAK, PARALLEL TO THE MAJOR AXIS AND LOCATED 2.0 INCHES FROM THE NON-TITLED EDGE, IS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION.
(4) FOG CAUSED BY STATIC DISCHARGE CAN BE DETECTED ALONG BOTH EDGES OF THE NEGATIVE.
(5) BANDING IS INTERMITTENT THROUGHOUT THE MISSION.
(6) IMAGE SMEAR AND DOUBLE IMAGERY ARE DETECTABLE ON

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HIGH OBLIQUE FRAMES.
(7) THE DENSITY AND CONTRAST ARE MEDIUM WHERE ATMOSPHERICS ARE NOT A FACTOR.
B. LEFT TECHNICAL OBJECTIVE CAMERA (AL), S/N 64-15:
(1) MINUS DENSITY DOTS 1.5 INCHES APART VARYING BETWEEN 1.50 TO 0.25 INCHES FROM TITLED EDGE, ARE PRESENT IN FRAMES 1 THRU 600.
(2) EMULSION LIFTS ARE PRESENT ON FRAME 1801.
(3) FOREIGN PARTICLES WERE FOUND ON FRAMES 532 AND 533.
(4) INTERMITTENT FOG AREAS 2.25 INCHES FROM TITLED EDGE ARE PRESENT THROUGHOUT THE MISSION WITH RANDOM FOG PRESENT IN FRAMES 1 THROUGH 18.
(5) PLUS DENSITY STREAK 0.50 INCH FROM UNTITLED EDGE IS PRESENT.
(6) EVIDENCE OF TITLED REMOVAL IS APPARENT ON FRAMES 1161 THROUGH 1740.

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(7) HEAT SPLICES ARE LOCATED BETWEEN FRAMES 567/568 AND 1269/1270.

(8) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 707/708; 754/755; 1048/1049; 1384/1385 AND 1815/1816.

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(9) LAST TITLED FRAME: 1817 WITH HANDLING MARKS PRESENT.

C. RIGHT TECHNICAL OBJECTIVE CAMERA (AR) S/N 64-06:

(1) PLUS DENSITY STREAKS RESULTING FROM LIGHT LEAKS ARE PRESENT ON FRAMES 54; 86; 89, AND 93. A PLUS DENSITY STREAK ACROSS FRAMES 102 AND 103 WAS CAUSED BY A CREASE AND A PROCESSING MARK, AND IS LOCATED ON FRAME 844.

(2) A MINUS DENSITY DOT IS LOCATED ON FRAME 753.

(3) THE FOLLOWING FRAME DATA CHAMBERS ARE PARTIALLY CONTAINED IN THEIR PRECEDING FORMATS: FRAMES 552/553 AND 1365/1366.

(4) EMULSION SCRATCHES ARE LOCATED ON FRAMES 406; 493 AND 1121.

(5) HEAT SPLICES ARE LOCATED BETWEEN FRAMES 491/492; 1036/1037; AND 1418/1419. AN ULTRA-SONIC SPLICE IS PRESENT ON FRAME 316.

(6) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 741/742; 800/801; 1085/1086; 1418/1419; AND 1824/1825.

(7) LAST TITLED FRAME: 1838.

5. ANALYSIS OF THE OPERATIONAL OBJECTIVE CAMERA MATERIAL:

A. COMMENTS APPLICABLE TO BOTH CAMERAS:

(1) THE DENSITY AND CONTRAST IS MEDIUM AND APPEARS TO

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BE SATISFACTORY.

(2) THE TIMING DOTS IMAGED WITH EACH FRAME BEGIN 0.55 INCH AFTER THE START OF SCAN AND EXTEND 0.85 INCH BEYOND THE END OF SCAN.

(3) THE DATA BLOCK IS READABLE WITH APPROXIMATELY 0.1 INCH OF THE DATA BLOCK ENTERING THE FORMAT AREA.

(4) RAIL SCRATCHES ARE PRESENT THROUGHOUT THE MISSION.

B. LEFT OPERATIONAL OBJECTIVE CAMERA (CL), S/N 40-27:

(1) NUMEROUS MINUS DENSITY STREAKS ASSOCIATED WITH DIRT IN THE SLIT ARE PRESENT. TWO MINUS DENSITY STREAKS 0.4 AND 0.7 INCH FROM THE NON-TITLED EDGE ARE PRESENT THROUGHOUT.

(2) FOGGED PATTERNS ARE PRESENT ON FRAME 453.

(3) THERE IS A PLUS 5 BIAS BETWEEN THE EVENTS COUNTER AND THE TITLED FRAME NUMBER.

(4) PART OF DATA CHAMBER MISSING ON FRAMES 340/341; 680/681; AND 1020/1021.

(5) TAPE SPLICES ARE PRESENT BETWEEN FRAMES 340/341; 420/421; 680/681; 870/871; 1020/1021; 1360/1361, AND 1700/1701.

(6) CAMERA OFF/ONS OCCURRED BETWEEN FRAMES 453/454, AND 1132/1133.

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(7) THE LAST TITLED FRAME IS 1872.

C. RIGHT OPERATIONAL OBJECTIVE CAMERA (CR) S/N 40-02:

(1) FILM CREASES AND ABRASIONS ARE PRESENT ON FRAMES 1553 AND 1559.

(2) THERE IS MINOR BANDING NEAR THE TAKE-UP END OF MOST FRAMES.

(3) NUMEROUS RAIL SCRATCHES APPEAR AT THE BEGINNING OF ROLLS 1, 2, AND 3. BASE SCRATCHES WERE BOTH INTERMITTENT AND CONTINUOUS THROUGHOUT MISSION.

(4) FOGGED PATTERNS ARE PRESENT ON FRAMES 458/459 AND 1349/1350.

(5) MINOR HANDLING MARKS ARE EVIDENT THROUGHOUT.

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(6) TAPE SPLICES ARE PRESENT ON FRAMES 340/341; 561/562; 680/681; 1020/1021; 1028/1029; 1360/1361, AND 1700/1701. THERE IS AN ULTRA-SONIC SPLICE IN FRAME 894.

(7) CAMERA OFF/ONS OCCURRED BETWEEN TITLED FRAMES 458/459 AND 1349/1350.

(8) A PLUS 12 BIAS EXISTS BETWEEN THE EVENTS COUNTER AND THE TITLED FRAME NUMBER.

(9) THE LAST TITLED FRAME IS 1891.

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END OF MESSAGE

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